DE GASPARIS' PLANET.

"Signor De Gasparis, of the Observatory of Naples, discovered a planet about 9·10 mag. on the 12th April last, while comparing Steinheil's Map (Hora xii.) with the heavens. Unfavourable weather prevented any exact determination that night, but on the 14th and 17th comparisons were made through other stars with No. 23098 of the *Histoire Céleste*,* which gave the results following:—

1849.	Naples M.T. h m s	R.A. m s	N.P.D. ′ ″
April 14	9 2 53	* — 0 30	* + 10 52
17	14 2 42	* — 2 59	* — 4 16

"The planet is retrograding and approaching the equator."—*From Professor Schumacher's Circular.*

Extract of a Letter from Professor Schumacher to the Astronomer Royal.

The following observations of Gasparis' Planet have been made at Berlin, Altona, Hamburg, and South Villa. The comparisons are with the places deduced from Encke's elements. The Mean Times are those of Berlin, Altona, Hamburg, and Greenwich, and are distinguished by the initial letter.

1849.		M. T. h m s		R.A. ° ′ ″	N.P.D. ° ′ ″	Correction to Elements. R.A. ″	N.P.D. ″
May 13	Prof. Encke	12 19 2·2	B	180 18 37·1	95 43 55·9		
15	,,	11 29 26·3	B	17 44·8	40 21·0		
17	Dr. Petersen	10 40 33·5	A	180 18 2·0	95 37 30·8	— 9·5	+14·0
	M. Sonntag	12 15 44	A	17 52·9	37 16·3	20·8	5·0
	M. Rümker	10 23 13·2	H	18 6·2	37 22·3		
18	Dr. Petersen	10 0 23·7	A	180 18 41·4	95 36 6·9	—14·7	+ 9·1
	,,	18 40·4	A	18 40·5	35 55·7	14·5	— 1·2
	M. Sonntag	25 46·0	A	18 38·7	35 59·6	16·2	+ 3·3
	M. Rümker	10 21 14·2	H	18 37·7	36 2·5		
20	Dr. Petersen†	10 0 25·2	A	180 21 8·0	95 33 40·4	—12 1	+ 2·0
	,,	31 29·3	A	21 2·1	33 47·6	20·1	10·3
	M. Sonntag	10 38 29	A	20 59·3	33 39·5	23·2	2·7
	M. Querling	11 36 7	A	21 4·6	33 38·0	—25·0	+ 3·6
	M. Rümker	10 19 22·0	H	21 0·1	33 36·8		
21	M. Sonntag	10 40 48	A	180 22 47·2	95 32 47·9		
	M. Rümker	10 16 48·7	H	22 37·5	32 44·5		
22	,,	10 28 35·5	H	24 35·5	32 4·4		
27	Mr. Hind‡	9 51 45	G	180 39 40·5	95 29 50·4		

* Epoch 1800.	Mag.	R.A. h m s	An. Prec. s	N.P.D. ° ′ ″	An. Prec. ″
Virgo	8½	12 9 48·64	+3·077	97 0 48·4	+20·04

† The planet faint in this comparison.
‡ Mr. Hind thought the planet rather fainter than 10 mag.

Elements.

Professor Schumacher has had the goodness to forward to the President, Professor Encke's elements of the newly-discovered planet. These elements are deduced from the observations of April 14, May 13 and 15, without taking Aberration, Nutation, Precession, Parallax into account.

Epoch 1849, May 13·5. Berlin M.T.

Mean longitude	211° 8′ 31″·1	
Anomaly	328 5 1·3	
Perihelion	243 3 29·8	
Node	286 34 31·1	
Inclination	3 46 5·9	
φ	9 50 36·8	e 0,170959
Log. a	0·514044	Mean daily motion 601″·09

The Computed—Observed places are as follows :—

	$\Delta\alpha$	$\Delta\delta$	
	′ ″	″	
April 14	— 0·2	0·0	
17	−7 37·5	−11·8	error of 30^s in the observation.
May 13	0·0	— 0·1	
15	— 0·6	+ 0·3	
16	— 4·9	+ 3·2	

Ephemeris from Encke's Elements. By Mr. Graham.*

For Greenwich Mean Midnight.

1849.	R.A. h m s	N.P.D. ° ′	Hor. Par. ″	1849.	R.A. h m s	N.P.D. ″ ′	Hor. Par. ″
May 25	12 2 13	95 30·2	3·92	June 14	12 10 42	95 51·2	
26	2 28	29·9		15	11 20	53·6	3·54
27	2 43	29·9		16	11 58	56·1	
28	2 59	30·0	3·86	17	12 38	95 58·7	
29	3 7	30·2		18	13 19	96 1·5	3·49
30	3 36	30·5		19	14 0	4·4	
31	3 56	31·0	3·81	20	14 42	7·4	
June 1	4 17	31·6		21	15 26	10·4	3·44
2	4 40	32·3		22	16 11	13·7	
3	5 4	33·1	3·75	23	16 56	17·0	
4	5 29	34·1		24	17 42	20·4	3·39
5	5 55	35·3		25	18 29	24·0	
6	6 22	36·6	3·69	26	19 17	27·7	
7	6 51	37·9		27	20 7	31·4	3·34
8	7 21	39·4		28	20 57	35·3	
9	7 51	41·1	3·64	29	21 48	39·3	
10	8 23	42·8		30	22 40	43·3	3·30
11	8 56	44·7		July 1	23 33	47·5	
12	9 31	46·7	3·59	2	24 26	51·7	
13	12 10 6	95 48·9		3	12 25 20	96 56·1	3·25

* An ephemeris for every 4 days has been communicated by Mr. Breen of the Royal Observatory.